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10 Nov 43, granted, 15 Jan 45, pub. 5 Oct 45.

A high-power seaplane is described with means for vertical take-off and landing on ground, vertical alighting on water, stationary hovering, braking at low air speed and reverse motion. The aircraft consists of a hull and two monoplane wings, preferably curved upwardly, one disposed forward of the general center of gravity of the plane and the other behind the center, considering the plane in the direction of flight. The seaplane comprises lift propellers complementing the action of tractor propellers and also propulsion units whose axes may be oriented into longitudinal vertical plane. The total motive power of the plane is collected in an engine compartment or a central power station (Engineering--Aeronautical, TT, v. 5, no. 4) (over)

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DESCRIPTORS: Ions, *Arsenic, *Phosphorus, *Sulfur,
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Gas discharges, Nitrogen, Ammonia.

As part of a study of the capability of atoms and mole-
cules to add an electron and be changed into free nega-
tive ions, an investigation was made of the composition
of ions forming in a gas discharge in nitrogen and
ammonia, and also in the vapors of arsenic, phosphorus
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Physics--Molecular, TT, v. 9, no. 7)

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DESCRIPTORS: *Halides, *Ions, *Alkali metal com-
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*Soils, Culture media, Solutions, *Nitrates, Nitration,
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Office of Technical Services